

4.4 Geostationary Narrowband Radiances (GEO)

EOSDIS Product Code: CERX09

Currently, CERES will use geostationary satellite data collected by the International Satellite Cloud Climatology Project (ISCCP).

The ISCCP B1 dataset consists of a narrowband infrared channel radiance (near 10.8 micrometer) and a narrowband visible channel radiance (near 0.68 micrometer). The radiances are sampled at about 10-km resolution every 3 hours. These data are in the form of eight- or ten-bit counts that can be converted to radiances using either nominal, normalized, or updated calibration formulae.

There are five sets of B1 data currently available (including two sets of METEOSAT). Others may be added in the future as other satellites are launched. The five sets currently available are

- 1) Geostationary Meteorological Satellite (GMS) in GMS format
- 2) Meteorological Satellite (METEOSAT) in METEOSAT format (2 satellites)
- 3) Geostationary Operational Environmental Satellite (GOES-East) in Canadian format
- 4) Geostationary Operational Environmental Satellite (GOES-West) in McIDAS format

These data will be provided by EOSDIS which will acquire them from NOAA, the designated archive center for ISCCP B1 data. The data volume is as follows:

- 1) GMS: eight 3480 cartridges
- 2) METEOSAT: eight 3480 cartridges
- 3) GOES-East: fifteen 3480 cartridges
- 4) GOES-West: seven 3480 cartridges

Each 3480 cartridge holds about 200 MB, so the data volume will be about 7.6 GB per month. NOAA will package these data in 8-millimeter tape format.

Level: 1B
Type: Ancillary
Frequency: Every Third Hour

Portion of Globe Covered
File: 1 Hemisphere
Record: 10-km Pixel

Time Interval Covered
File: 1 Hour
Record: Instantaneous

Portion of Atmosphere Covered
File: TOA

Note: Geostationary products are produced by the International Satellite Cloud Climatology Project ([Reference 7](#)). They are used by the CERES Project.

GEO Revision Record

The product Revision Record contains information pertaining to approved section changes. The table lists the date the Software Configuration Change Request (SCCR) was approved, the Release and Version Number, the SCCR number, a short description of the revision, and the revised sections. The authors are listed on the document cover.

GEO Revision Record

SCCR Approval Date	Release/ Version Number	SCCR Number	Description of Revision	Section(s) Affected
N/A	R3V1	N/A	• Updated format to comply with standards.	All